

S/137/62/000/005/015/150
A006/A101

AUTHOR: Kožený, J.

TITLE: Electromagnetic mixing of steel in electric arc furnace

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 48-49, abstract
5V290 ("Elektrotechnik", 1961, v. 16, no. 9, 256-258, Czech;
Russian and German summaries)

TEXT: The electromagnetic device for the mixing of steel in electric arc furnaces operates on the principle of asynchronous motor. Underneath the bottom of an electric-arc furnace there is a flat (or chambered, according to the bottom shape) stator with a winding of several turns. The current frequency feeding the stator should be 1.5 - 0.3 cycles for 10 - 180 ton electric arc furnaces. The velocity of steel motion in the pool is 10 - 60 cm/sec. The active mixing power of steel in 10 - 180 ton electric arc furnaces is 10 - 40 kw, and the apparent power is 150 - 800 kvamp; $\cos \varphi$ is very small (0.1 - 0.5) which is a serious deficiency of induction mixing. The cooling of stators, prevalently water-cooling, is required due to the considerable heating by irradiation from the electric arc furnace case (by 50 - 80°C) and great losses in the winding turns.

Card 1/2

Electromagnetic mixing of steel...

S/137/62/000/005/015/150
A006/A101

Electric power consumption for mixing is, according to data supplied by ASEA (Sweden), for 30-ton electric-arc furnaces as high as 12 kw-h/t of steel; up to 20 kw-h by taking into account electric power for cooling and other purposes, or about 3% electric power consumption for melting. However, mixing makes it possible to reduce the melting time by 20 - 30 min which yields savings about 50 kw-h/t. On the whole, the savings exceed by a factor of 2.5 the excess of electric power consumption for mixing. The daily efficiency of electric arc furnaces increases on the average by 10%. Purely metallurgical advantages of mixing are: acceleration and improving of desulfurization and slag removal; reduced P content in the steel; better homogeneity of the steel and improved utilization of alloying elements.

S. Glebov

[Abstracter's note: Complete translation]

Card 2/2

KOZENY, M.; VELICH, V.

Polarographic behavior of monoazo dyes and their fastness to light.
Coll Cz Chem 25 no.4:1031-1036 Ap '60. (EEAI 9:12)

1. Institut fur physikalische Chemie, Technische Hochschule fur
Chemie, Pardubice.

(Polarograph and polarography)
(Azo dyes)

41199

S/194/62/000/007/019/160
D222/D309

9.2.70

AUTHORS: Kohoutek, Jindřich, and Kožený, Olaf

TITLE: Polarized relay using ferrites as the source of a constant magnetic field for use in the memory units of electronic computers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1962, abstract 7-1-87 zh (Czech. pat., cl. 21g, 4/01, 21 a¹, 20/01, no. 9784, Nov. 15, 1960)

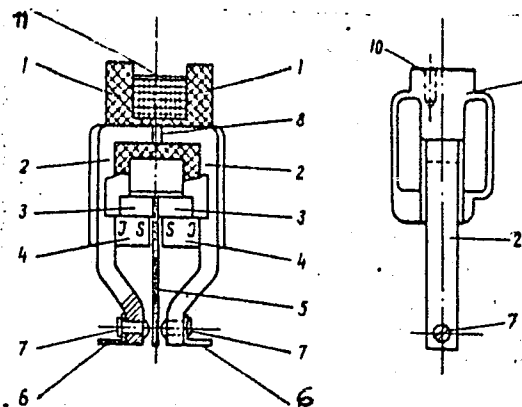
TEXT: A miniature polarized relay is patented, in which the source of a constant magnetic field is a ferrite core. The essence of the device (see figure) is in making the body 1 of the coil 11 out of plastic and fastening inside the body the pole pieces 2, made of ferromagnetic material and separated by the isolating insert 8. These pole pieces are also used as current conducting elements for the coil 11. At the free bent endings are located the contacts 7 and the soldering lugs 6 to connect the supply to the relay. Between the contacts 7 is located the armature 5 of the tongue type, fastened on the electrical conductor bridge 3 on which there are Card 1/2

Polarized relay using ferrites ...

S/194/62/000/007/019/160
D222/D309

also soldering lugs. The bridge 3 is fastened to the inner side of the body 1. The ferrite elements 4 fit directly to the pole pieces 2, but because of their nonconducting nature they are electrically isolated from them. The relay is mounted by means of the hole 10 in the body 1 of the coil. The polarity of the ferrite elements is shown on the figure (I-S, S-N). 2 figures. [Abstracter's note: Complete translation.]

Fig.



Card 2/2

41759

S/194/62/000/008/005/100 ..
D201/D308

7/21/62
AUTHORS: Kohoutek, Jindřich, and Koženy, Olaf

TITLE: A polarized relay for computers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 8, 1962, abstract 8-2-14 e (Czech. pat., cl. 21 g,
4/01; 21a¹, 20/01, no. 98161, Jan. 15, 1961)

TEXT: The construction of the polarized relay proposed is based on two stamped H-shaped isolating components joined together. The recesses of two components contain the elements of the magnetic circuit: the tie-piece contains the core of the control winding, the longitudinal bays contain the reed armatures. Between the ends of the bays are the polarization systems with permanent magnets. The external surface of the bays and of the tie-piece form a frame for the output winding. The winding, the contact terminals and other components are situated within the limits of this frame which makes it possible to place the relays close to each other. 5 figures. [Abstracter's note: Complete translation.]

Card 1/1

S/194/62/000/010/015/084
A154/A126

AUTHORS: Kohoutek, Jindřich, Kožený, Olaf

TITLE: A miniature polarized relay

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 10, 1962, 52, abstract 10-1-1041 (Czech. pat., cl. 21a¹, 20/01; 21g, 4/01, no. 99327, April 15, 1961)

TEXT: This patented miniature polarized relay, intended for use in relay computers, is distinguished by simple design, small dimensions, ease of assembly and installation, and high technical parameters. The relay coils, magnets, contacts and other elements are press-fitted, which ensures sufficient mechanical strength and greatly reduces the number of separate elements. The relay is enclosed in a protective casing made of a transparent material, such as glass, which makes hermetic sealing possible. To increase the operating reliability of the relay, the inner cavity of the casing is filled with neutral gas, which makes the operation and parameters of the relay independent of external conditions and makes it suitable for use in tropical conditions. There are 3 figures.
[Abstracter's note: Complete translation] I.P.

Card 1/1

KOZERA, Alfons; MROZEK, Kazimierz

Theory on the geological structures in the zone of great gradients of the gravity force in the territory North-West of Radomsk. Przegl geol 10 no.1:33-37 Ja '62.

KOZERA, Alfons, mgr inż.

Connection of the seismic and gravimetric prospecting results
with the geological structure of the Tuszyn-Belchatow region.
Nafta Pol 18 no.12:324-327 D '62.

1. Biuro Dokumentacji i Projektowania Geologicznego Przemysłu
Naftowego, Warszawa.

KOZERA, Alfons, mgr inż.

Modeling geological structures by calculative-mechanical
methods in gravimetric surveying. Nafta Pol 19 Special
issue:6-16 19-26 Je '63.

1. Biuro Dokumentacji i Projektów Geologicznych, Krakow.

POLAND/Cultivated Plants. Fodder Plants.

M

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68225

Author : Borkowski, Roman; Kozera, Gotfryd

Inst : -

Title : Moisture Requirements and Drought-Resisting
Ability of Sweet Clover.

Orig Pub : Roczn. nauk rolniczych., 1956, A73, No 4,
623-637

Abstract : For three years, pot experiments were conducted with soil moisture at 20, 30, 40, 50, and 60 percent of total moisture capacity. The higher the soil moisture level, the larger the yield of mass above ground. As soil moisture declined, the root systems of the plants were seen to develop more strongly, and as soil

Card : 1/2

77

POLAND/Cultivated Plants. Fodder Plants.

M

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68225

moisture rose, the above-ground mass developed. With soil moisture at 20 percent and 30 percent for 21 days, sweet clover either did not reduce its yield of above-ground mass or reduced it to an insignificant extent. -- Ye. M. Tsvetayeva

Card : 2/2

ACC NR: AP7006085

(A)

SOURCE CODE: CZ/0078/66/000/011/0024/0024

INVENTOR: Svejka, O. (Engineer; Pardubice); Kozera, J. (Engineer; Pardubice)

ORG: none

TITLE: [Solid-fuel propellant] CZ Pat. No. PV 7461-65

SOURCE: Vynalezky, no. 11. 1966, 24

TOPIC TAGS: solid propellant, solid rocket propellant, solid fuel, ammonium perchlorate, perchlorate

ABSTRACT: Authors describe a solid fuel for propelling model rockets, aircraft, or ships, based on ammonium perchlorate, distinguished by the fact that it contains 0.5 to 20% by weight of powdered zinc with 200- μ grain size, in addition to the basic fuel and catalyzer.

SUB CODE: 21/ SUBM DATE: 13Dec65

Card 1/1

KOZERA, St., inz.

New assortments in the agricultural machine industry in 1963.
Masz ciagniki 10 no.2:33-39 F'63

ACC NR: AT6036585

SOURCE CODE: UR/0000/66/000/000/0210/0211

AUTHOR: Kozerenko, O. P.

ORG: none

TITLE: Dynamics of physiological indices during the prolonged standing test in evaluating the functional state of the organism following prolonged experimental exposure to mechanical stressors [Paper presented at the Conference on Problems of Space Medicine held in Moscow from 24 to 27 May 1966]

SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow, 1966, 210-211

TOPIC TAGS: orthostatic test, space physiology, human physiology, isolation test, hypodynamia

ABSTRACT: The duration of experiments designed to recreate such spaceflight factors as isolation and hypodynamia is coming more and more to approach the actual duration of the proposed flights. The same is true of experimental "playbacks" of multiday flights. In this connection, functional tests acquire particular importance, since, as partial models of more complex experimental conditions, they make it possible to establish control over the state of the organism during a prolonged exposure and to evaluate its total effect on the basis of the results obtained both during the

Card 1/3

L 10968-67.

ACC NR: AT6036585

pre-experimental period and in the prolonged after-effect period.

In order to evaluate functional capacities of persons subjected to 7-day isolation and 3-day confinement in an enclosure of extremely small volume in a constrained posture, workers at the laboratory of F. D. Gorbov used a prolonged (20 min) standing test with multi-effector control (EKG, EEG, EMG, and BP) to study the characteristics of interaction between motor and vascular components during the accomplishment of purposeful locomotor activity and posture-maintenance activity in particular.

The effect of the above-mentioned experimental conditions was manifested as an uneven decrease in vascular and muscular tonus and the appearance of a state of asthenia which can be termed a lowering in cortical tonus.

Particular attention is directed not only to changes in the absolute values of pulse frequency, respiration, arterial pressure, and brain and muscle biopotentials, but also particularly to the dynamics of these indices during post-experimental testing. One general and characteristic result was the relative "stabilization" of the levels of physiological parameters following prolonged experiments. In place of the wave-like gradual

Card 2/3

ACC NR: AT6036585

changes in these parameters which characterized all pre-experimental tests, there was a spasmodic shift to each new value.

Such shifts in the dynamics of the recorded indices indicate change in the mechanisms of physiological function regulation, which prior to the experiment assured the optimal reaction in each case. Most probably this consists in deterioration of the mechanisms assuring correction of the mean levels of functional indices.

For this reason, the dynamics of physiological parameters during post-experimental studies can be used as a criterion for evaluating the functional state of the organism. [W.A. No. 22; ATD Report 66-116]

SUB CODE: 06 / SUBM DATE: 00May66

Card 3/3 ^{1/11}

KOZERENKO, V. N. and LAZARENKO, Ye. M.

"The Question of the Presence of Alpine Intrusions in Priargunia (Eastern Zabaykal)," Dok. AN, 58, No. 9, 1947.

SO: Monthly List of Russian Accessions, Library of Congress, _____ 1953, Uncl.

KOZERENKO, V. N.

PA-67T42

USSR/Geology
Stratification
Tectonics

Mar/Apr 1948

"The Stratigraphy and Tectonics of the Paleozoic and Pre-Cambrian Deposits of the Northern T'ien-Shan Area," V.N. Kozarenko, 16 pp

"In Ak Nauk SSSR, Ser Geolog" No 2

Author collected and used field data for his description of the stratigraphy and tectonics of the Pre-Cambrian and Paleozoic layers in wide areas in the central part of the northern zone of T'ien-Shan. Points out synchronous nature of deposits

67T42

USSR/Geology (Cont'd)

Mar/Apr 1948

based on nature of geologic facies. Determines the divisions of new mineral rock complex.

67T42

LAZ'KO, YE.M. i MITICH, G. B.
19814 KOZERENKO, V.N. LAZ'KO, YE.M. i MITICH, G.B.

O vozraste drevnikh svit Priargun'ya (Vostoch Noye Zabaykag'ye) Izvestiya Akad. Nauk
SSSR, Seriya geol., 1949, No3, s.97-99
SO: LETOPIS ZHURNAL STATEY - No., 27, Moskva, 1949.

KOZERENKO, V. N.

PA 39/49T53

USSR/Geology
Petrology
Stratification

Mar 49

"Characteristics of Cimmerian Intrusions in
the Southeastern Section of Southern Transbaikial,"
V. N. Kozerenko, Ye. M. Laz'ko, 4 pp

"Dok Ak Nauk SSSR" Vol LXV, No 3

Discusses rock formations of 'Priargunskiy
zone,' which is characterized by limited develop-
ment of relatively narrow and weakly dislocated
Jurassic deposits and presence of small Cimmerian
intrusions. Submitted by Acad D. S. Belyankin,
1 Feb 49.

39/49T53

KOZERENKO, V. N.

KOZERENKO, V. N.; LAZARENKO, YE. K.; LAZ'KO, YE. M.; REZVOY, D. P.;
VIKTOR ARSEN'YEVICH NIKOLAYEV; YERMAKOV, N. P.

"On the Occasion of His 60th Birthday and 35th Year of Scientific Activity,"
Minerlog. sb. L'vovsk. geol. o-va, No 7, 330-332, 1953

V. A. Nikoleyev, a corresponding member of the Academy of Sciences USSR, is one of the greatest specialists in the field of stratigraphy, vulcanism, and tectonics of Central Asia. He established the sharp tectonic boundary between the northern and southern zones of the T'ien-Shan Mountains, the so-called "most important structural line of the T'ien-Shan," or "line of Nikolayev." In recent years, Nikolayev has been occupied with working out the general problems of physicochemical petrology and the problems of the application of thermodynamics to the processes of magmatic crystallization and metamorphism. Especially important are his theoretical investigations into the field of systems with volatile components of the rock-forming silicate-water type. Study of the ternary systems gives an understanding of the processes governing the formation of hydrothermal and pneumatolite solutions.

RZhGeol, No 1, 1955

KOZERENKO, V. N.

KOZERENKO, V. N., and MUSHNIKOV, A. F.

"Stratigraphy and Tectonics of the Southern Deposits of Eastern Transbaykal,"
Uch. zap. L'vovsk. Un-ta. ser. geol., 23, No 6, 29-41, 1953

In the Eastern Transbaykal region, the lower and middle Jurassic is divided into the following two coeval environmental complexes: marine and "Algacha" (i.e. coastal-marine and continental). The author distinguishes a third one, a cis-Argun continental complex, distinguished by variability of lithological properties and sharply decreasing thicknesses of deposits.

RZhGeol, No 1, 1955

KOZERENKO, V.N.

Some problems in endogenous metallogeny. Geol.sbor.[Lvov] no.1:227-
251 '54. (MLRA 10:1)

1. Gesuniversitet imeni Ivana Franko, L'vov.
(Ore deposits)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 2,
p 44 (USSR) 15-57-2-1479

AUTHOR: Kozerenko, V. N.

TITLE: The History of Investigations on the Structure of the
Eastern Trans-Baikal Region (K istorii izucheniya
geologicheskogo stroyeniya Vostochnogo Zabaykal'ya)

PERIODICAL: V sb: Voprosy geologii Azii, Vol I, Moscow, Izd-vo
AN SSSR, 1954, pp 686-705

ABSTRACT: Bibliographic entry
Card 1/1

KOZIRENKO, V.N.

Geology and petrology of the southwestern extremity of the complex
Kutomarskiy intrusive massif in eastern Transbaikalia. Nauk.spa.
L'viv.un. 31:62-83 '54 [i.e. '55] (MIRA 10:3)
(Transbaikalia--Rocks)

KOZURENKO, V.N.; BELOUSOVA, O.N.

~~Age correlation of intrusive complexes in the southeastern region~~
of eastern Transbaikalia. Nauk. zap. L'viv.un. 31:164-184 '54.
[i.e. '55]. (Transbaikalia--Rocks, Igneous) (MIRA 10:3)

KOZERENKO, V.N.

Geological history of the Transbaikalia folding region during the
Permian period. Nauk.Zap.L'viv.un. 35:41-57 '55. (MLRA 9:8)
(Transbaikalia--Geology, Stratigraphic)

KOZHERENKO, V.N.; LAZ'KO, Ye.M.

Some problems on the geology of the Argun' region. Nauk.zap.L'viv.
un. 35:176-186 '55. (MLRA 9:8)
(Argun' Valley--Geology)

KOZMARENKO, V.M.; LUCHITSKIY, I.V., dotsent, nauchnyy redaktor; GAZER, S.L.,
redaktor izdatel'stva; SARANYUK, T.V., tekhnicheskiiy redaktor

[Geological structure of the southeastern part of eastern Trans-
baikalia] Geologicheskoe stroenie iugo-vostochnoi chasti Vostochnogo
Zabaikal'ia. [L'vov] Izd-vo L'vovskogo univ., 1956. 308 p. (MIRA 10:3)
(Transbaikalia--Geology, Structural)

KOZERENKO, V.N.

GOSZHEVSKIY, F.I.; KOZERENKO, V.N.

Regular features in the occurrence of polymetallic and rare-metal
zones and belts. Geol.sbor.[Lvov] no.2/3:36-61 '56. (MLRA 10:3)

1. L'vovskiy gosuniversitet imeni Ivana Franko)
(Ore deposits)

KOZERENKO, V.N.; LAZ'KO, Ye.M.

Geological conditions for the formation of graniteids. Geol.sbor.
[Lvov] no.2/3:114-121 '56. (MLRA 10:3)

1. L'vovskiy gosuniversitet imeni Ivana Franko.
(Rocks, Igneous)

KOZERENKO, W. N. and MUSHNIKOV, A. F.

"The Correlation Between Prospecting and Large-Scale Geological Surveys
in Inaccessible Regions of Complex Geological Structure," Razvedka i okhrana neдр,
No.9, pp. 30-33, 1956. L'vov State University.

Translation M-3,053,774

KOZERENKO, V.N.

Some basic problems of the geological structure of eastern
Transbaikalia. Izv.AN SSSR.Ser.geol. 21 no.8:107-112 Ag '56.
(Transbaikalia--Geology, Structural) (MLRA 9:11)

KOZERENKO, V.N.; MUSHNIKOV, A.F.

Correlations between prospecting and large-scale geological surveying
in closed regions and the complexity of geological structures. Razved.
i okh. nedr 22 no.9:30-33 S' 56. (MLRA 9:11)

1. L'vovskiy gosudarstvennyy universitet.
(Geology, Structural) (Geological surveys)

GORZHEVSKIY, D.I.; KOZERENKO, V.N.

On some regularities in the distribution of polymetallic and rare-metal deposits. Dokl.AN SSSR 107 no.5:723-726 Ap '56.

(MLRA 9:8)

1. L'vovskiy gosudarstvennyy universitet imeni Iv. Franko. Predstavleno akademikom N.S. Shatskim.

(Ore deposits)

KOZHERENKO, V.N.

Most significant middle Paleozoic structural elements in Transbaikalian folds. Geol. sbor. [Lvov] no.4:231-241 '57. (MIRA 13:2)

L'vovskiy gosuniversitet imeni Ivana Franko.
(Transbaikalia--Geology, Structural)

KOZERENKO, V. N.

AUTHOR:

Kozerenko, V. N.

TITLE:

On the Argun-Near Facies of Jurassic Deposits in East Transbaykalia (O priargunskoy fatsii yurskikh otlozheniy Vostochnogo Zabaykal'ya).

20-4-40/52

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 686-689 (USSR)

ABSTRACT:

East Zabaykal'ye belongs to the Mongolo-Okhotsk mesozoic fold area which has a complicated structure. Among the lower and middle Jurassic sediments three facial complexes are prominent:
1.) Marine clastic sediments characterized by their fauna, having a thickness of 3,5-4 km, in the central part of the East Zabaykal'ye;
2.) Specific accumulations of the so-called "Algachinskaya yura", which are of equal strength and are, on the whole, more roughly clastic, and are, above all, characterized by the remains of plants; roughly clastic continental sediments of considerably reduced thickness with a freshwater pelecypoda fauna and remains of plants. Works of recent years have shown that the facial complexes 1) and 2) are synchronous. Beside those mentioned above, the author sorted out a specific continental complex of Jurassic sediments of the

Card 1/4

On the Argun-Near Facies of Jurassic Deposits in East
Transbaykalia

20-4-40/52

argon-near facies in a strip between the settlements Nerchinskiy Zavod and Klichki. It is lithologically very variable and is sufficiently widely spread in East Zabaykai'ye. The fauna ascertained therein made it possible to determine the age. The present information is devoted to the characteristic of the above complex. It is connected with the "Alachinskaya Yura" by gradual transitions. The inter-relations between these two facial complexes may be seen from fig. 1. The author is of the opinion that the Argun-near facial complex corresponds to the upper part of the Alachinskiy cross section. This was confirmed by determination of the fauna. The sediments of the facial complex are located in synclinals: e.g. Savvo-Borzinskaya, in hollows, Kalganskaya and Chashino-Il'dikanskaya, and, in individual cases, in structures of the trench type. In such a case, e.g. South of the settlement of Nerchinskiy, there are 2 suites: the upper and the lower, which were sorted out by the author. The study of the very motley lithological composition leads to the conclusion that the sedimentation of the basal horizon occurred at many places on a considerably ramified relief. The

Card 2/4

On the Argun-Near Facies of Jurassic Deposits in East
Transbaykalia

20-4-40/52

rocks are of continental origin. In spite of its considerably motley character sufficiently distinct rules governing the distribution of the individual types of rock with respect to the great fold elements of the Jurassic age can be determined. They were uncovered only for the lower sandstone suite. The Southwest wing of the synclinal structures are composed of clastic rocks which are more coarse than those of the Northwest. In the direction of the areas of the "Centroclinal Closing" ("tsentroklinal'noye zamykaniye") sediments become coarser and their thickness diminishes. This may be seen with particular clearness in the Kalganskaya syncline. The following conclusions may be drawn herefrom: The synclinal structures of the complex mentioned have been formed in the course of a process of sedimentation. The rocks of the complex had no coherent surface development. Their formation took place at the expense of the destruction of the adjoining sections of the paleozoic fundament. Sediments of the lower sandstone suite occupied a larger surface. The knowledge gathered recently made it possible to solve the question concerning the age of the sediments concerned. The

Card 3/4

On the Argun-Near Facies of Jurassic Deposits in East
Transbaykalia

20-4-40/52

fauna gathered near the village of Pokrovka contains 6 kinds of lamellibranchs and 1 kind of phyllopods originating from fresh water; their age is, without doubt, of the middle Jurassic. Also remains of flora gathered at various places of the Argun'-near facies must be classed as belonging to the middle Jurassic.

There are 1 figure, and 3 references, all of which are Slavic.

ASSOCIATION: State University imeni Iv. Franko L'vov (L'vovskiy gosudarstvennyy universitet im. Iv. Franko)

PRESENTED: June 11, 1957, by N. V. Shatskiy, Academician

SUBMITTED: June 10, 1957

AVAILABLE: Library of Congress

Card 4/4

KOZERENKO, V.N.

Principal geological characteristics of eastern Transbaikalia.
Geol. sbor. [Lvov] no.5/6:291-313 '58. (MIRA 12:10)

1.Gosuniversitet imeni Ivana Franko, L'vov.
(Transbaikalia--Geology, Structural)

KOZERENKO, V.N.; LAZ'KO, Ye.M.; REZVOY, D.P.

Vladimir Mikhailovich Kreiter; on his 60th birthday. Geol. sbor.
[Lvov] no.5/6:595-597 '58. (MIRA 12:10)
(Kreiter, Vladimir Mikhailovich, 1897-)

KOZERENKO, V.N.; MUSHNIKOV, A.F.

New data on the Jurassic stratigraphy of eastern Transbaikalia.
Pyt.geol. no.9:87-101 '58. (MIRA 13:4)
(Transbaikalia--Geology, Stratigraphic)

3(0)

AUTHORS:

Kozerenko, V. N., Lokerman, A. A.

SOV/20-123-6-38/50

TITLE:

On Ordovician Deposits in South-Eastern Transbaykal (Ob
ordovichskikh otlozheniyakh Yugo-Vostochnogo Zabaykal'ya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6, pp 1096-1099
(USSR)

ABSTRACT:

The polymetallic ore deposits in the eastern Transbaykal are connected with Lower Paleozoic rocks. This fact makes the study of this complex particularly important. According to the geological fieldwork 1946-1951 (done by D. I. Gorzhevskiy, N. S. Gorshkov, V. N. Kozerenko, Ye. M. Laz'ko, G. V. Mitich, A. F. Mushnikov, a.o.), the Ordovician series in the mentioned area was divided into the following concordant lying suites (Ref 1): 1) Bystrinskaya (1000 - 1200 m thick); 2) Altachinskaya (about 2000 m thick); 3) Nerchinsko-zavodskaya (up to 1500 m thick after new reports) and 4) Blagodatskaya (600 m thick). The last one was put into the Silur and marked as concordant lying on the Nerchinsko-zavodskaya (error by N. S. Gorshkov, who collected fossils out of the rubble, instead of in situ). In 1956 the authors determined a discordance and an interrup-

Card 1/3

On Ordovician Deposits in South-Eastern Transbaykal

SOV/20-123-6-38/50

tion between the two suites (4th and 3rd). According to the determination of the fauna (by I. P. Morozova, Ye. A. Ivanova, and N. Ya. Spasskiy), the Blagodatskaya suite has a Middle Devon age (perhaps the upper part of the Lower Devon included). A. A. Lokerman in 1957 found a fauna, which characterized the Nerchinskozavodskaya suite as belonging to the Ordovician. The suites 1 - 3 in the title mentioned area have neither a fauna nor reliable marker-horizons. The existence of overturned strata caused considerable difficulties in the mapping and often drew necessary information from the assumed stratigraphical scheme. So the existence of suite 3 was either denied by certain research workers or it was put together with suite 4. The reports of the recent years (G. I. Knyazev, S. P. Kruzin (1957), Yu. A. Alyushinskiy, Ye. Z. Isagulova) proved the correctness of the assumed scheme, but brought a few corrections to it. The Nerchinskozavodskaya suite is put into the Venlok stage of the Ordovician according to the fauna found (determinations by Ye. A. Ivanova, O. N. Nikiforova, and V. E. Kyrvel). A spores complex (determination by Ye. Z. Isagulova, proved by S. N. Naumova) dates as Upper Ordovician - Lower Silur (against B. V. Timofeyev, who puts these spores into Sinium - Lower

Card 2/3

On Ordovician Deposits in South-Eastern Transbaikalia
(Cambrium). There are 2 Soviet references.

SOV/20-123-6-38/50

ASSOCIATION: Chitinskoye geologicheskoye upravleniye (Chita Geological
Administration)

PRESENTED: July 9, 1958, by N. S. Shatskiy, Academician

SUBMITTED: July 5, 1958

Card 3/3

3(5)

SOV/11-59-8-9/17

AUTHORS: Kozerenko, V.N. and Lokerman, A.A.

TITLE: On Lower Silurian Deposits of the South-Eastern Transbaykal Region

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 8, pp 100 - 104 (USSR)

ABSTRACT: The finding of numerous remains of fauna in the Lower Paleozoic strata of the Eastern Transbaykal region permitted the authors of this article to prove that the 3 suites of strata composing the Lower Paleozoic series were formed in the interval of time between the Lower Cambrian and the Upper Silurian periods. Most ore deposits of the polymetallic belt of the Eastern Transbaykal region are associated with the Lower Paleozoic strata of rocks. As a result of a geological survey by D.I. Gorzhevskiy, N.S. Gorshkov, V.N. Kozerenko, Ye.M. Laz'ko, G.B. Mitich and A.F. Mushnikov, the Lower Paleozoic strata were divided into 4 suites: 1) the Bystrinskaya suite, composed of limestones and

Card 1/5

On Lower Silurian Deposits of the South-Eastern Transbaykal Region SOV/11-59-8-9/17

dolomitic limestones with seams of phyllitic schists (1,000 - 1,200 m thick); 2) the Atacha suite - argillaceous and phyllit-like schists and aleurolites with seams of limestones and sandstones (about 2,000 m thick); 3) the Nerchinskiy Zavod suite - dolomites and dolomitic limestones with seams of marly-argillaceous schists (about 1,500 m thick) and 4) the Blagodat'skaya suite - argillites with seams of quartzites and limestones (600 m thick). The age of the Bystrinskaya suite was determined when G.I. Knyazev and S.P. Kruzin found ancient remains of Archaeocyatha belonging to the Lower - Middle Cambrian period. The age of the Atacha suite and of the lower part of the Nerchinskiy Zavod suite was fixed by Yu.A. Alyushinskiy and Ye.Z. Isagulova, who found pollen and spores in these suites, as belonging to the Middle Cambrian - Ordovician interval. Finally A.A. Lokerman and N.I. Parkhomets found in the upper part of the Nerchinskiy Zavod suite remains of fauna which classified this upper part as belonging to the Lower Silurian period.

Card 2/5

On Lower Silurian Deposits of the South-Eastern Transbaykal Region SOV/11-59-8-9/17

At the same time, and contrary to findings of N.S. Gorshkov, it was established that the Blagodatskaya suite does not belong to the Silurian Period and that it covers unconformably the Nerchinskiy Zavod suite. The fauna in the upper part of the Nerchinskiy Zavod suite in the region of Mount Blagodatskaya was identified by Ye.A. Ivanova, O.N. Nikiforova and B.E. Kyrvel as belonging to the Wenlock stage of the Lower Silurian period. A study of the cross section of the Nerchinskiy Zavod suite showed a conformable structure of the suite and a gradual transition of marly, thinly seamed limestones into marly-argillaceous schists which contain the above mentioned Silurian fauna. This conformity was also observed by K.D. Sholkin, L.N. Lenok, K.F. Kuznetsov, A.N. Svirskiy and M.I. Stetsyuk. This proves, say the authors, that strata of the Nerchinskiy Zavod suite are part of one complex. The study by Ye.Z. Isagulova (later confirmed by S.N. Naumova) of spores and pollen found in the underlying carbonaceous stratum also proves that the

Card 3/5

On Lower Silurian Deposits of the South-Eastern Transbaykal Region SOV/11-59-8-9/17

upper part of the Nerchinskiy Zavod suite and this stratum form a single complex (by age). The marly schists of the upper part of the Nerchinskiy Zavod suite are covered with a sharp unconformity by beds of the Blagodatskaya suite, composed of quartzites, variegated argillites and of greyish-brown siliceous schists. Fauna collected in the argillites was identified by I.P. Morozova, Ye.A. Ivanova, N.Ya. Spasskiy and Ye.A. Modzalevskaya; this showed that the Blagodatskaya suite belonged to the Lower Devonian Period. It proved that the 3 first suites belonging to the Lower Paleozoic series were formed between the Lower Cambrian and the Lower Silurian period. The presence of Ordovician deposits in the East Transbaykalian region, questioned by some geologists, was thus proved. There are 2 Soviet references.

Card 4/5

On Lower Silurian Deposits of the South-Eastern Transbaykal Region

SOV/11-59-8-9/17

ASSOCIATION: Vsesoyuznyy zaochnyy politekhnicheskiy institut,
Moskva (All-Union Correspondance Polytechnical
Institute, Moscow)

SUBMITTED: March 17, 1959

Card 5/5

W.
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"Metallogeny of Central and Eastern Zabaykal'ye"

report presented at the First All-Union Conference on the Geology and Metallurgy
of the Pacific Ocean Ore Belt, Vladivostok, 2 October 1960

So: Geologiya Rudnykh Mestorozhdeniy, No. 1, 1961, pages 119-127

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(Transbaikalia—Ore deposits)

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Some features of the metallogeny of the folded basements of platforms.
Razved. i okh. nedr 26 no.9:7-11 S '60. (MIRA 15:7)

1. L'vovskiy universitet (for Gorzhevskiy).
 2. Vsesoyuznyy zaochnyy politekhnicheskyy institut (for Kozerenko).
- (Ore deposits)

KOZERENKO, U.N.

Baku, 18-23 Sept 1962
 Regularities in the Formation and Distribution of Endogenous
 Mineral Resource Deposits,
 The Third All-Union Conference on... S/011/63/000/001/002/002
 A006/A101

Group 2 included reports on--
 endogenous deposits in other synclinal regions, such as mercury formations in
 Siberia and the Far East (V. A. Kuznetsov), pyrite deposits in the Ural (S. N.
 Ivanov), Kimeridgian and Alpine metallogeny in Uzbekistan (I. Kh. Khamrabayev);
 ore region types in the Pacific area (Ye. A. Radkevich); metallogeny in Tadzhik-
 istan (K. I. Litvinenko); hydrothermally transformed rocks in the Trans-Carpa-
 thian region (M. Yu. Pishkin) peculiarities in magmatism and metallogeny of the
 Mountainous Crimea (V. I. Lebedinskiy), antimony-mercury fields (M. A. Karasik)
 and others. Group 3 included reports on the classification of metallogenous zones
 and provinces of the Earth crust (D. I. Gorzheyskiy); classification of metallo-
 genous zone types of the Earth crust (V. N. Kozerenko); classification of mag-
 matogenous non-metallic mineral resources as a basis of prognoses and prospecting
 (V. P. Petrov); types of metallogenous provinces in synclinal regions of the
 USSR (A. I. Semenov); principles of geological zoning on the example of Central
 Asia (K. L. Babayev); comparative characteristics of metallogeny in Malay Caucasus
 and the Kamchatka-Koryak zone (I. G. Magak'yan), some particularities of metallo-
 geny in the Mediterranean geosynclinal region (G. A. Tvalohrelidze); rootless
 plutons and some peculiarities in the magmatism of moving zones (A. P. Lebedev);
 paragenetic ore complexes (P. S. Saakyan) the part of deep-lying breaks in
 metallogeny of syncline regions on the example of the Caucasus (E. Sh. Shikhali-
 beyli). The closing report was read by A. V. Sidorenko, Minister of Geology and
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Izvestiya Ak nauk SSSR, Seriya Geologicheskaya, No. 1, 1963, pp 126-128

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Geological characteristics of the complex metal zone in the Argun
Valley. Trudy IGEM no.83:7-30 '63. (MIRA 16:11)

GORZHEVSKIY, D.I.; KOZERENKO, V.N.

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Sov.geol. 6 no.8:3-16 Ag '63. (MIRA 16:9)

L. L'vovskiy gosudarstvennyy universitet i Vsesoyuznyy zaochnyy
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(Ore deposits) (Rocks, Igneous)

GORZHEVSKIY, D.I.; KOZERENKO, V.N.

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Izv.vys.ucheb.zav.; geol. i razv. 8 no.1:65-74 Ja '65.

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ARISTOV, V.V.; KRENDELEV, F.P.; KREYTER, D.S.; RUSTICOV, I.A.;
RAMUSHKIN, V.A.; TROFIMOV, N.N., prepod. KREYTER, V.M.,
prof., retsenzent; AL'BOV, M.N., prof., retsenzent;
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(Concrete slabs--Transportation)

KOZEREVSKIY, P.; IRMAN, J.; ÕRA, A., red.; PEDARI, J., tekhn.
red.

[Growing sugar beets at low labor costs] Suhkrupeedi
kasvatamine vähese tööjõukuluga. Tallinn, Eesti
Riiklik Kirjastus, 1962. 63 p. (MIRA 17:1)

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Constructing large-panel houses. Transp.stroi. 9 no.9:
26-28 S '59. (MIRA 13:2)

1. Nachal'nik tresta Ufimtransstroya (for Fatkullin).
(Apartment houses)
(Precast concrete construction)

KOZERITSKIY, G.I.

Provide construction projects with high-quality tools. Transp.
stro1. 10 no.6:61-62 Je '60. (MIRA 13:7)

1. Glavnyy inzhener tresta Ufimtransstroy.
(Building--Tools and implements)

KOZERITSKIY, G.I.

The construction trust needs effective help. Transp. stroi.
13 no.5:78 My '63. (MIRA 16:7)

1. Glavnyy inzh. tresta Kuybyshevtransstroy.
(Railroads--Construction)
(Precast concrete construction)

KOZERITSKIY, G.N.

Reusable molds for making reinforced concrete headbands for
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(MIRA 13:6)

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(Moldings)

BULGARIA/Cultivated Plants. Fruits. Cherries.

K

Abstr Jour : Ref Zhur-Biol., No 15, 1958, 68354

Author : Kozerkov, Aleksandr

Inst : Dobrudzha Scientific Research Institute.

Title : Testing Certain Prospectively Useful Plum Strains for Production.

Orig Pub : The Dobrudzha Scientific Research Institute investigated and described 26 plum strains, among them some which are unknown or relatively unknown, but which have valuable qualities for extensive utilization. A short pomological description is given of those plum strains which appear to be most valuable for future use. Tulcu gras, a local Rumanian variety, is little used in Bulgaria. It is quick-ripening, however, bears fruit regularly, produces high yields, and bears fruit of high

Card : 1/3

173

BULGARIA/Cultivated Plants. Fruits. Berries.

M

Abs Jour : Ref Zhur-Biol., N^o 15, 1958, 68354

quality. In terms of the taste qualities of its fruit and of the ripening of its fruit, No 459 is not inferior to Tulcu gras. No 205 is a drought-resistant, high-yield strain which ripens 5-7 days earlier than the standard strain. Its fruit is also of high quality. Renklod Al'tana is very little grown; its fruit is of high quality, and it is especially recommended for regions with a well developed canning industry. The Azhan-skaya plum is a desert strain. It is grown in regions whose conditions resemble Dobrudzha conditions and produces technically high yields. The fruit of Alekovo No 1 has excellent taste qualities; this strain deserves to be tested

Card : 2/3

BULGARIA/Cultivated Plants. Fruits. Berries.

II

Lbs Jour : Ref Zhur-Biol., No 15, 1958, 68354

for production. No 277 is a strain of
high-yield qualities. It bears fruit regu-
larly and produces high-quality fruit. --
Ye. T. Zhukovskaya

Card : 3/3

174

KOZEROVSKIY, I.N., inzh.; SMELOV, V.A., inzh.

Erection of breakwaters with the use of tetrapods. Transp.stroi.

13 no.9:32-33 S '63.

(MIRA 16:12)

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(Power presses--Technological innovations)

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Poland as exporter and importer of wood, cellulose. and paper products. p. 161.

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Uncl.

KOZERSKI, S.

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PRZEMYSŁ CRZEWNY. Centralne Zarzady Przemyslow: Drzewnego, Meblarskiego, i
Lesnego i Stowarzyszenie Inzynierow i Technikow Lesnictwa i Drzewnictwa.
Warszawa, Poland. Vol. 9, no. 6, June 1958.

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Uncl.

KOZERSKI, T.

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Hempel S. and Kozerski T. "Laboratory and Semi-Technical Apparatus for Hydrogenation of Fatty Oils under Atmospheric Pressure." (Aparatura laboratoryjna i poltechniczna do uwodorniania olejow tluszczowych pod cieniem atmosferycznym). Przemysl Chemiczny, No. 5, 1950, pp. 299-301, 4 figs.

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Uncla.

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(COLD, effects,
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(CENTRAL NERVOUS SYSTEM, function tests,
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funct.)

(TETANUS,
toxin, convulsion threshold in toxin pois. as index of
CNS funct.)

(CONVULSIONS,
threshold to tetanus toxin as index of CNS funct.)

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2. Clen korespondent Ceskoslovenske akademie ved (for Vana, Gosiorovsky, Kaspar, Strnad, Zatopek).
3. Rektor Karlovy university (for Prochazka).
4. Rektor Ceskeho vysokeho uceni technickeho (for Brabec).
5. Namestek presidenta Ceskoslovenske akademie ved (for Sorm)

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Praha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

25(2)

PHASE I BOOK EXPLOITATION

CZECH/1245

Kozesnik, Jaroslav, Professor, Engineer, Doctor, Corresponding Member,
Czechoslovak Academy of Sciences

Dynamika stroju; vybrane stati (Dynamics of Machinery; Selected Topics)
Prague, SNTL, 1958. 334 p. 2,400 copies printed.

Reviewer: Skoda, Jiri, Engineer; Chief Ed.: Cihak, Vlastimil, Engineer; Resp.
Ed.: Husarek.

PURPOSE: This book is intended for workers in research institutes, universities,
and colleges, and for practicing engineers and students.

COVERAGE: The book is described as the first of its kind in Czech literature and
also as differing in concept and content from similar publications abroad.
The author states that, despite the subtitle "Selected Topics", the reader can
find in the book a solution to almost all important problems of the dynamics of
machinery. The great number of references enables the reader to go into special
problems which are not discussed in the book. The author's intention is to

Card 1/6

Dynamics of Machinery (Cont.)

CZECH/1245

familiarize the reader with modern design methods useful in the dynamics of machinery, so that the reader may solve his own problems and improve existing methods. The methods used in the book are not too complex and do not require special mathematical knowledge. The author thanks the reviewer of the book, Jiri Skoda, Candidate of Sciences Karel Julis, Engineer, and Cenek Zikmund, Engineer, for their help in preparing the book. There are 65 references, of which 19 are Czech, 18 German, 15 English, 12 Soviet, and 1 Polish.

TABLE OF CONTENTS:

Foreword	7
Introduction	9
1. Rotating Masses	11
2. Whirling and Bending Vibration of Rods	23
2.01 Whirling of a vertical shaft with one mass in the center	23
2.02 Effect of declination of the plane of a disc during rotation	29

Card 2/ 6

Dynamics of Machinery (Cont.)

CZECH/1245

2.03	Effect of nonuniformity in rotation	31
2.04	Effect of variable moment of inertia of cross section in rotation of a shaft	33
2.05	Effect of rigidity of supports on the whirling of a shaft	35
2.06	Basic equation for projections of the deflection curve of a rotating shaft	36
2.07	Influence numbers	39
2.08	Calculation of critical speeds of whirling of a shaft with several discs	42
2.09	Statically indeterminate shafts	48
2.10	Some approximate methods for determining the critical speeds of whirling	49
2.11	Whirling of shafts with uniformly distributed mass	53
2.12	Conditions during starting	55
2.13	Transverse bending vibration	56
2.14	Differential equation for transverse vibration of straight beams	61
2.15	Increasing exactness of some approximate methods	68
2.16	Free vibration of rod having statically indeterminate supports	72

Card 3/6

Dynamics of Machinery (Cont.)

CZECH/1245

2.17	Vibration excited by load changing with respect to time and perpendicular to the axis of the beam	76
2.18	Vibration due to impact	81
2.19	Strut vibration caused by a variable force acting in its axis	90
3.	Balancing Inertia Forces in Machines and Mechanisms	97
3.01	On motion and inertia forces of a crank mechanism	97
3.02	Balancing inertia forces and their moments in single-cylinder engines	105
3.03	Balancing inertia forces in multicylinder in-line engines	107
3.04	Radial and similar arrangement of cylinders	116
4.	Mounting Machines on Foundations	127
4.01	Kinetic and potential energy of a foundation block	129
4.02	Vibration of foundation blocks	139
a)	Linear vibration	139
b)	Vibration in a plane	147
c)	Three-dimensional foundation vibration	150

Card 4/6

Dynamics of Machinery (Cont.)

CZECH/1245

4.03	Deformation of springs and ^{of} elastic layer of the foundation bed	159
4.04	Frame-type and slab-type foundations	169
5.	Longitudinal Vibration of Beams and Rods	174
5.01	Fundamental equations of motion	174
5.02	Sudden load changes and impact	178
5.03	External and internal damping	184
5.04	Semi-infinite rod	190
5.05	Harmonic vibration of a rod	192
5.06	Vibration of a variable cross-section rod	197
6.	Torsional Vibration	201
6.01	Basic equations for torsional vibration of straight shafts	201
6.02	Matrix methods of torsional vibration calculation	211
6.03	Calculation of natural torsional frequencies of simple systems	215
6.04	Shafts with single and multiple-contact drives	223
6.05	Vibrations excited by synchronous moments acting on uniform portion of a shaft	226

Card 5/6

Dynamics of Machinery (Cont.)	CZECH/1245	
6.06 Torsional vibration of crankshafts		228
6.07 Disturbing moments of crankshafts		237
6.08 Artificial means for damping dangerous torsional vibrations		249
6.09 Other methods for investigating natural torsional vibrations		273
7. On Flywheel for Machines and Mechanicians		282
7.01 Flywheel as an energy accumulator		282
7.02 Special features of drives for piston-engine powered synchronous generators		292
7.03 Flywheel and governor of piston engines		294
7.04 Dynamic effects of a flywheel and its stresses		304
8. Dynamics of Cam Mechanisms		310
8.01 General information on cam mechanisms		310
8.02 Dynamics of a valve-operating cam mechanism		314
8.03 Vibration of springs		319
Bibliography		328
Author Index		331
Subject Index		333
AVAILABLE: Library of Congress		
Card 6/6	GO/fal	

KOZESNIK, Jaroslav

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deformations. Acta tech Cz 5 no.6:503-515 '60. (EEAI 10:4)

1. Czechoslovak Academy of Sciences, Praha.
(Functions)

~~KOZRESHNIK, Yaroslav~~ [Kozesnik, Jaroslav], prof., inzh. doktor;
GOL'DENBERG, G.M., inzh. [translator]; ARBUZOV, V.N., kand.
tekhn. nauk, red.; BYSTRITSKAYA, V.V., red. izd-va; MODEL',
B.I., tekhn. red.

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(Machinery) (Mechanical movements)

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S/044/62/000/005/035/072
C111/C444

AUTHOR: Kožechník, Jaroslav
TITLE: On the renewal theory
PERIODICAL: Referativnyy zhurnal, Matematika, no. 5, 1962, 24,
abstract 5V117. ("Acta techn." (USSR), 1961, 6, no. 5,
419-426)

TEXT: Considered is a system of N machines. Every machine consists of two parts which temporarily fall out and are substituted by reserve parts. During the period Δt the falling out of the first part of the machine happens with the probability $(\lambda_1/N)\Delta t + o(\Delta t)$, the falling-out of the second part happens with the probability $(\lambda_2/N)\Delta t + o(\Delta t)$; the probability of a falling-out of both parts at the same time is $(\mu/N)\Delta t + o(\Delta t)$. The falling-outs at different machines are independent on each other and independent on the moment of former falling-outs. If $A(t)$ and $B(t)$ indicate the number of the parts of the machine of the first and second type which fall out in the moment t , then this two-dimensional process is a Markov process. The author sets up equations for $P(A, B, t) = P\{A(t) = A, B(t) = B\}$ and solves them by Laplace transformation; there is.

Card 1/2

On the renewal theory

S/044/62/000/005/035/072
C111/G444

$$P\{A, B, t\} = \sum' \frac{\lambda_1^n \cdot \lambda_2^k \cdot \mu^m}{n! k! m!} \cdot t^{n+k+m} e^{-(\lambda_1 + \lambda_2 + \mu)t} \quad (1)$$

where \sum' means summation only on those n, m, k for which holds $n+m = A$, $k+m = B$. Then the author determines the moments $MA(t)$, $MB(t)$, $MA(t)B(t)$. Note of the referent: formula (1) can easily be obtained, if one considers that $A(t) = \xi_1(t) + \eta(t)$, $B(t) = \xi_2(t) + \eta(t)$, where $\xi_1(t)$, $\xi_2(t)$, $\eta(t)$ are Poisson flows being independent to each other, with the intensities λ_1 , λ_2 and μ .

[Abstracter's note: Complete translation. The reviewer is M. K. Belyayev].

Card 2/2

Z/048/62/000/010/001/003
D409/D301

AUTHOR: ● Kožešník , Jaroslav, Academician, Bearer of the
Labor Medal, Deputy Chairman of the Czechoslovak
● Academy of Sciences

TITLE: Science - Progress - Communism

PERIODICAL: Věda a technika mládeži, no. 10, 1962, 328 - 329

TEXT: This is an interview on cybernetics, given by Academician J. Kožešník, also Director of the Institute of Information Theory and Automation. Kožešník generally describes cybernetics as an interdisciplinary science for seeking methods to study control and communication processes in complex systems, finding common characteristics, determining changes occurring in the system, and tracking the laws governing these changes. The notion system in this sense may incorporate machines, organisms, organizations, etc. Similar or analogous phenomena are often studied with the aid of models. These models serve a dual purpose: (1) to facilitate the

Card 1/2

Science - Progress - Communism

Z/048/62/000/010/001/003
D409/D301

mathematical description of the studied phenomena; (2) to derive the function of the system itself from the behavior of the model. The behavior of a complex system is commonly investigated dependent on time with the aid of the probability and random-process theory, both notions taken from communication engineering. Also the theory of probability has its models, namely the urn model. Cybernetics find their widest application in automatic control systems. The Institute for Information Theory and Automation is working on the solution of an automatic control system using digital computers for large thermal power plants. There is also great interest in systems with the adaptability to compensate even for errors in their own design. Such systems are capable of "thinking"; however, cybernetics are not yet able to reach that state of organization, complexity, and philosophy as is found in organisms. Another interesting field of cybernetics is the theory of games. There are 3 figures.

ASSOCIATION: Ústav teorie informace a automatizace ČSAV (Institute of Information Theory and Automation, Czechoslovak AS)

Card 2/2

KOZESNIK, Jaroslav, akademik

Effect of the diameter of grinding wheels on its output in the BPH
surface grinding machines; a discussion. Stroj vyr 10 no.12:621 '62.